

ABSTRACT OF THE DISCLOSURE

A combined oxygen and NO_x sensor is provided. Generally, the combined sensor employs a sensor body that includes two different types of electrodes - oxygen-porous electrode layers and dissociative oxygen-porous electrode layers. In accordance with one embodiment of the present invention, the sensor comprises a sensor body, an oxygen content electrical signal output, and a NO_x content electrical signal output. The sensor body is disposed in the gas and comprises a plurality of oxygen-porous electrode layers and a plurality of dissociative oxygen-porous electrode layers. The dissociative oxygen-porous electrode layers comprise a material selected to catalyze dissociation of NO_x into nitrogen and oxygen.